

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

United States Patent Application No. _____
National Stage Application of PCT/US03/23426

Title: Microreactor with Controllable Pressure and
Temperature for In Situ Material
Investigations

Inventor: McKelvy et al.

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PRELIMINARY AMENDMENT

Please enter the following preliminary amendment in the above-referenced application:

In the Specification

Please replace paragraphs [0001], [0025] and [0026] with the following corresponding replacement paragraphs, which are marked to show the changes relative to the previous version of the paragraphs:

[0001] This application is the U.S. national stage of PCT Application No. PCT/US03/23426, titled, "Microreactor with Controllable Pressure and Temperature for In Situ Material Investigations," which is based on and claims the priority and benefit of U.S. Provisional Patent Application No. 60/398,689 filed on July 26, 2002, both of which are incorporated herein in their entirety by this reference.

[0025] Referring to FIG. 4, a thermocouple well 62 extends from the exterior of the core body 14 to a point within the core body very near the reaction chamber 37 (e.g., within a millimeter of it) but without penetrating into the chamber 37. The thermocouple well 62 14 is sized to receive a thermocouple (not shown) for measuring the temperature of the core body 14